	13.	Approved For Release 2002/09/03 : ČIA-RDP78B	04767A000300050008-4	
			25X1A	
	DECLASS	REVIEW by NIMA/DOD	Copy <u>5</u> or <u>6</u>	
		Ad Hoc Committee for J-3 Systems Cambridge Minutes for Meeting #4  Date: 2 May 1968  Location: Office of Special Projects, In Prepared Attendees:	25	<b>X</b> ′
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	25X1A			•
,		Bi-Color Summary -	25X1A	
25X1		approximately 30 revolutions of operations of operations. The first Bi-Color requirements OSI. Additional Bi-Color requirements	was submitted to COMIREX by	
25X1	25X1A	reported on Bi-Color effective emphasis has been directed toward a be Automatic Registration Electronic Stert the best method for photographing the in ARES scope. Trials with Polaroid, as have been conducted. At present, Ektabe most suitable. NPIC now has a listing	forts by NPIC. The major etter understanding of the eoscope (ARES) and of developing ntegrated image displayed on the well as other color materials, color and Ektachrome appear to ang of 21 Bi-Color targets that agh NPIC has been aware of the reality of Bi-Color really	. ,
		The present plan is for to preach target on a priority IA basis. One be forwarded to NPIC and the other to A from the ARES scope. ACIC will make	25X1A coduce two 10X enlargements of e copy of the enlargements would ACIC. NPIC will make prints	
				5)

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ACIC anticipates that 1600 man hours will be required for orthoprinting

approximately three weeks--24 hours per day--barring any equipment failure. NPIC will provide ACIC the vehicle attitude data necessary to their operation. Coordination at NPIC is now required and will be

21 targets (assuming all targets are covered). This equates to

	handled by 25X1A	
25X2		
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		*.·
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	As a matter of information, the bi-color filters are commanded into position by a tracking station rather than preprogrammed. Thus, these filters usually remain in place for an entire revolution.	
	25X1A To establish a value of bi-color, NPIC photointerpreters were	
x of	to identify specific targets by the reflectance characteristics on black and white film. A second test was given the same photointerpreters with bi-color from the ARES. From the first test, only a few identi-	
1, 20th	fications were made. From the second, essentially all targets were identified, the exception being one color-blind photointerpreter.	
25X1A	useful in demonstrating the bi-color technique. Several object, e.g., 25 tomato, orange, different minerals, gold watch, rusty cans, etc.	5X1
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25X1

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**	were photographed with a hand held 35 mm camera on black and white film. The ARES reproduces these objects in quite realistic colors.
25X1A	The bi-color discussion was concluded with a recommendation 25X1 from that NPIC study the results of bi-color (considered R&D/operational) to determine the kind of equipment required to exploit bi-color photography on an operational basis.
	Sun Line Experiment - 25X1A 25X1A
	At the last meeting, suggested that this committee review the results of a test using 3400 film in the with the thought that this test would give the committee a basis for recommending night 25X1 tests with J-3 systems.
	An evaluation of the low illumination experiment was made to determine the minimum sun angle at which terrain imagery was recorded on type 3400 film. The duplicate positive was used for the evaluation since the original negative was not available. The final evaluation will be made on the original negative and may necessitate a slight change in the results listed below.  25X1
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in the second se		
i	OFV4A	
	25X1A  Exposure Analysis -	
25X		
; <u>20</u> /\;	presented a briefing of the Exposure Report (J-3 S	System
	Capability Report) contents. The fairly lengthy discussions pursu	ant to
	this briefing were fruitful in that the final draft of the Exposure No.	eport
	was basically approved by the committee. The details of this brie and discussion will not be documented here since each committee	ing member
	has a draft copy of the Exposure Report. Also, the Report will be	25X1A
>	distributed to the community in June. It was agreed that	and
25X1A	, acting as a subcommittee, would jointly consider all acc	
	work for inclusion. Also, recommendations for additional satellit will be included. It was felt that for report completeness, a delay	
	publication was warranted will report their	
	to the committee about the first of June 1968.	
	Polarizar Raport 25X1A	25X1A
	Polarizer Report - 25ATA	
	The Polarizer Report was discussed and approved for publ	ication
	It is expected that this report will be distributed to the community	
	13 May 1968.	
		25X1A
• .	CR-4 Test Plan (See Attachment) -	20/(1/(
	Further marking tests with SO-180 and SO-340 have	<u>.</u>
	been conducted at AP. Results indicate that SO-180 has a window	
	12 and 20 microns where no marking is evident. During the SO-18	30 -
	test on CR-4, the PMU will maintain a system pressure at 16 micr	
	There appears to be no chance of SO-340 being free of corona mar hence, this film will be dropped from the test plan. 3400 will be s	
The state of the s	Approved For Release 2002/09/03 : CIA-RDP78B04767A000300050008-4	upatituted.
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	25X1A	L
	The CR-4 test plan will take one of two routes. One route is to include a tag on 1500 foot test strip of SO-180. Also, if a night test desired, a tag on test strip of 3400 will be flownindicated that 3400 with the appropriate processing would equal the speed of 340. The added advantage is that 3400 is of finer grain.	
	The second route will be employed in the event that COMIREX requests bi-color on CR-4. Due to filter choices the bi-color operatio could be conducted as well as the SO-180 test. The night test would be omitted. Film and filters for CR-4 will be required at about the middle of July.	ns
	Action Items from Previous Meetings 2	5X1 <i>F</i>
25X1,	2. located SO-121 at simulated satellite altitudes using	5X1 <i>F</i>
	the T-1 tracker system. Research for the presentation to PSAC obviated the significance of this material due to poor T-1 camera performance.	-
25X1A	3 reported the USIB requirement for crop analysis. The requirements below were extracted from USIB-D-41.14/280:	
	"Agricultural production in Communist China is of considerable intelligence interest, and good data on this subject are lacking. CIA is working with NPIC to test the feasibility of using photographic techniques to estimate crop yields from satellite photography."	
	"CIA proceed apace in seeking to develop techniques whi will enable estimates of crop yield to be made from satellite photography (see paragraph 9)."	
25X1A	4. will carry over action item to locate reports.	X1A
25X1A	5. reported that a half speed 3404 is being developed with a lead time of approximately two years.	
25X1A	6. reported that a test bed processor is available to do limited amounts of hump-back processing. The Y-5 hump-back process is scheduled for completion about 19 August 1968.	sor
	General Discussion  29  Major topics discussed will be indicated as action item below.	5X1 <i>F</i>

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25X1A	Action Items  1. will arrange for a presentation of accomplishments to date using a polarizer filter with color films.
25X1A	
25X1A	will coordinate Kodachrome II tests with Beale AFB,
25X1A 25X1A	4. will locate reports (carry over item).  5. will assure that special filters needed for SO-180
	test on CR-4 are available.
	Minutes Approv Attachment: a/s
	25X1A